TOPFIELD

CBC-5150

User Guide

Digital Cable Receiver
IRDETO Embedded

DVB
Digital Video
Broadcasting

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Chapter 1

Introduction

The CBC-5150 digital receiver is fully compliant with the international Digital Video Broadcasting (DVB) standard, and thus is able to receive digital broadcasts of that standard.

NOTE

In general we equate a channel with a frequency. However, unlike analogue broadcasts, digital broadcasts are not all assigned to their own frequencies; instead, multiple television broadcasts are transmitted through a single frequency. The frequency in digital broadcasting is usually called transponder or multiplex. To reduce confusion in this manual, the word **service** is preferably used than **channel** as a term to indicate one television or radio broadcast.

1.1 Features

This digital receiver has the following features:

- Can store up to 2,000 television and radio services.
- You can edit the services list.
- Can create lists of your favourite services.

- Can view information about the current television or radio programme.
- Has an electronic programme guide that provides an overview of scheduled programmes.

1.2 Controlling the digital receiver

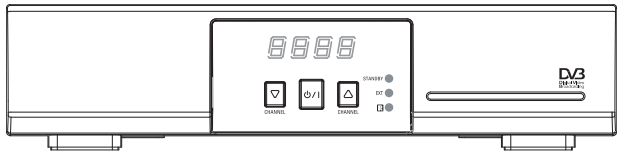
You can operate the digital receiver with the remote control or the buttons on the front panel.

NOTE

When the digital receiver is off but plugged into a wall socket, we say that it is in standby mode; on the other hand, when it is on, it is in active mode. Even when you are not using the digital receiver, you should keep it plugged into a wall socket to be in standby mode so that it can run timer events at any time.

1.2.1 Front panel

The front panel of the digital receiver has buttons to control the digital receiver, specific lights and a display to indicate its status. The following indicates what they mean.



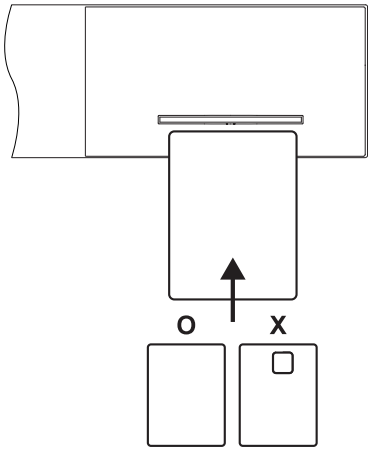
⏻/❙ button switches the digital receiver between standby mode and active mode.

Front display shows the current time in standby mode, and displays the current service in active mode.

STANDBY lightlights up while the digital receiver is in standby mode.

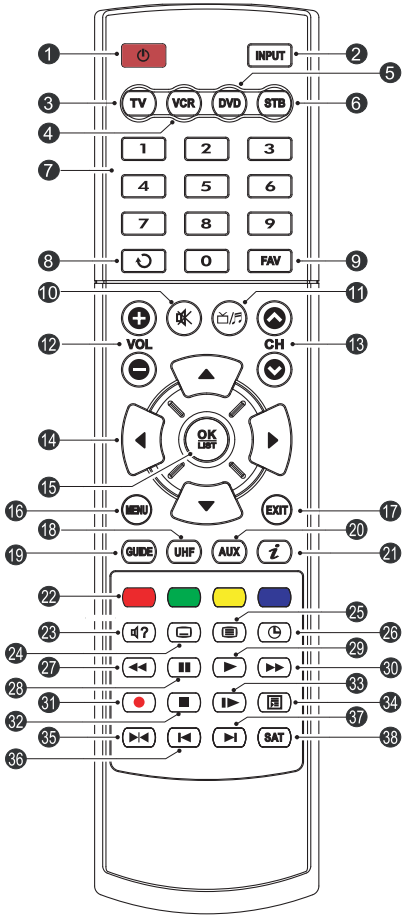
lightblinks every time you press a button on the remote control.

CHANNEL ▼, ▲ buttons switch to the previous or next service.



You have to insert your subscription card into the front slot to watch pay services. When you insert the subscription card, the side on which the chip is mounted must face downward.

1.2.2 Remote control



1 button switches the digital receiver between standby mode and active mode.

2 INPUT selects an input to your television.

3 TV switches the remote control to television mode to operate your television.

4 VCR switches the remote control to VCR mode to operate your video recorder.

5 DVD switches the remote control to DVD mode to operate your DVD player.

6 STB switches the remote control to receiver mode to operate the digital receiver.

7 Numeric buttons are used to enter a service number for service change or to specify values for menu options.

8 switches over between the current service and the previously viewed one.

9 FAV displays the favourite lists.

10 mutes the sound. Press again to switch it back on.

11 switches over between television services and radio services.

12 , buttons decrease or increase the volume.

13 , buttons switch to the previous or next service.

14 Navigation buttons are used to navigate in menus or to change values for menu options.

15 OK displays the services list. See §5.2.1 for more details. It is also used to select a menu item.

16 MENU displays the main menu. It is also used to return to the previous menu from a submenu.

17 EXIT is used to exit a menu or to hide on-screen information.

18 GUIDE displays the electronic programme guide.

19 UHF displays the radio frequency setting menu. See §4.2.4 for more details.

20 AUX is not used in this model.

21 displays the service information box. It is also used to display more information about a programme.

22 These buttons have different functions per menu. They will be guided by on-screen help.

23 is used to select an audio track and a sound mode.

24 is used to select a subtitle track.

25 displays teletext.

26 is used to set a sleep timer in 10 minute increments.

27 is not used in this model.

28 pauses live television.

29 is not used in this model.

30 is not used in this model.

31 is not used in this model.

32 is not used in this model.

33 is not used in this model.

34 is not used in this model.

35 has different functions per menu.

36 is not used in this model.

37 (▶I) is not used in this model.

38 SAT is not used in this model.

NOTE

When using the remote control, point it at the remote sensor on the front panel of the digital receiver.

1.3 Subscription card information

With this digital receiver, you can view pay services scrambled with the *IRDETO* conditional access system. Probably you have a subscription card. If you would like to view information in detail about your subscription card, select the Conditional Access menu. There you can also check the messages from the broadcasting operator.

Chapter 2

Setup

2.1 Unpacking

Before going any further, check that you have received the following items with the digital receiver.

- Remote control unit
- Two batteries for the remote control (AAA 1.5 V)
- A copy of this user guide

NOTE

Accessories may vary according to your local area.

2.2 Safety precautions

Please read carefully the following safety precautions.

- The mains voltage must range between 90 and 250 volts. Check it before plugging the digital receiver to the wall socket. For the power consumption of the digital receiver, refer to Table 2.1.
- The wall socket should be near the equipment. Do not run an extension lead to the unit.

- The mains plug shall remain readily operable so that it can be removed easily to disconnect the power.
- The digital receiver shall not be exposed to dripping or splashing water, and no objects filled with liquids, such as vases, shall be placed on it.
- Do not expose the digital receiver to any moisture. The digital receiver is designed for indoor use only. Use dry cloth to clean the digital receiver.
- Place the digital receiver on a firm and level surface.
- Do not place the digital receiver close to heat emitting units or in direct sunlight, as this will impair cooling. Do not lay any objects such as magazines on the digital receiver. When placed in a cabinet, make sure there is a minimum space of 10 centimetres around it. For the physical specification of the digital receiver, refer to Table 2.2.
- Protect the power cord from being walked on or pinched. If the cord is damaged, do not use the digital receiver and get the cord replaced.
- Never open the digital receiver casing under any circumstances, or the warranty will be void.
- Refer all servicing to a qualified service technician.

Table 2.1: Power specification

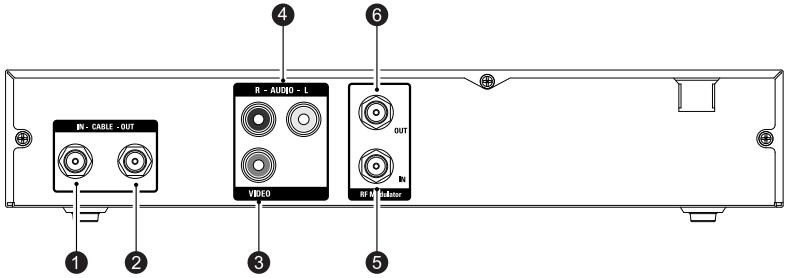
Input voltage	90 to 250 V AC, 50/60 Hz
Power consumption	19 W at maximum in active
	8 W in standby

Table 2.2: Physical specifications

Size	215× 46× 155 mm
Weight	1.2 kg
Operating temperature	0 to 45 °C
Storage relative humidity	5 to 90 %

2.3 Rear panel connections

The CBC-5150 has the following connections on the back:



1 CABLE IN Cable broadcasting signal input socket

2 CABLE OUT Cable broadcasting signal output socket through the CABLE IN socket for another digital receiver

3 VIDEO Composite video output socket for the television set (yellow)

4 AUDIO L/R Stereo audio output socket for the television set or the audio-video receiver (white/red)

5 RF IN Analogue television input socket

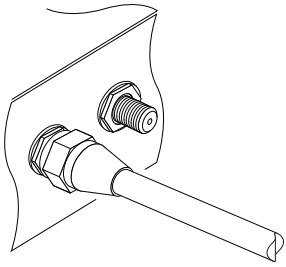
6 RF OUT Analogue television output socket

Table 2.3: Connectors specifications

VIDEO	Composite video (CVBS) output
AUDIO	Left & right audio output
RF OUT	NTSC, PAL

2.4 Connecting up your digital receiver

2.4.1 Connecting to the broadcasting cable

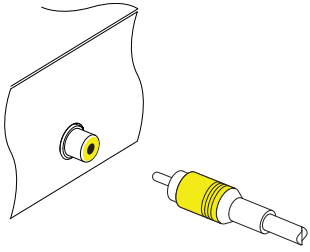


Whatever sort of connection you have between the digital receiver and the television, you need to connect the digital receiver to the broadcasting cable so that it can receive digital television broadcasts. Connect the broadcasting cable to the CABLE IN connector. If you have another digital receiver, you may link it from the CABLE OUT connector.

2.4.2 Connecting to your television set

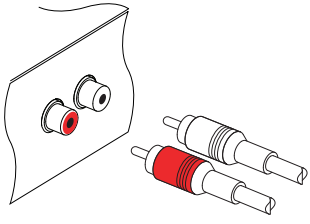
You should configure audio and video settings after connecting up the digital receiver. See §4.2 for a detailed description.

To use the Composite video output



You need to obtain a Composite video cable (RCA cable) to use the Composite video output. Plug one end of the cable into the VIDEO (yellow) socket on the digital receiver, and plug the other end into the matching socket on your television.

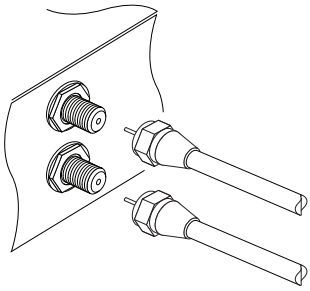
To make the audio connection



You need to obtain an audio cable (RCA cable) to link the audio connectors. Plug one ends of the cable into the AUDIO L (white) and AUDIO R (red) sockets on the digital receiver, and plug the other ends into the matching sockets on your television or audio-video receiver.

To use the RF output

If your television does not have any video and audio input, you will need to use the radio frequency output from the digital receiver.



In this case, you will need to connect a cable from the RF OUT socket to the antenna connector on your television. To ensure your television can also pick up existing analogue channels as well, you will need to connect a cable from your television antenna to the RF IN connector.

Tune your television set to channel 4 so that you can see the output from the digital receiver.

2.5 Switching on for the first time

Now that you have your digital receiver connected, you should plug it into a wall socket. Ensure that your television set is turned on and on the correct video channel so that you will be able to see the display from the digital receiver.

Before switching on the digital receiver, you should insert batteries into the remote control. Open the battery compartment by removing the lid, and then insert the batteries observing the polarity, which is marked on the base of the battery compartment.

Press the button on the top left corner on the remote control. In a little time, you may see a picture displaying a menu.

If the picture is good, you can skip to §3.1 to search for available television and radio services.

CAUTION

If the digital receiver no longer reacts properly to the remote control commands, the batteries may be flat. Be sure to re-

place only with 1.5 V AAA size batteries, and observe the following precautions.

- Do not mix different types of batteries, or new and old batteries.
- Do not use rechargeable batteries.
- Do not recharge the old batteries.
- In order to avoid any risk of explosion, observe the polarities indicated inside the battery compartment.
- Do not subject to excessive heat such as the sun and fire.
- If you are not using the remote control for a long period of time, remove the batteries. The manufacturer accepts no liability for the damage resulting from leaking batteries.
- Batteries, including those which contain no heavy metals, may not be disposed with other household wastes. Please dispose of used batteries in an environmentally sound manner. Find out the legal regulations which apply in your area.

Chapter 3

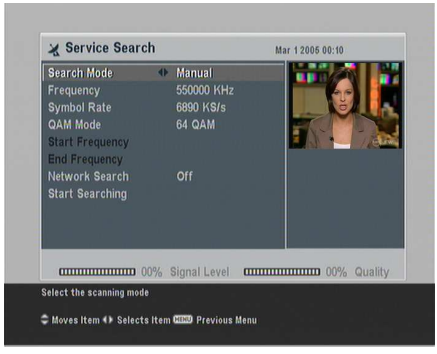
Service Search

After connecting up the digital receiver, you will need to perform a service search.

NOTE

If there is no service stored, you will be not able to access all menus. A SERVICE is another name for a CHANNEL.

3.1 Searching for broadcasting services



To perform service search, select the Installation > Service Search menu. You should see a screen like the left figure.

You should set the Search Mode option to Auto at the first service search after installing the digital receiver. The digital receiver will search all available services with the automatic search mode within the frequency range from the frequency of the Start Frequency option to the frequency of the End Frequency option. Symbol Rate stands for data transfer rate, and QAM is a form of modulation used in digital broadcasting. Broadcasting operators send their services in a symbol rate by a modulation method. Perhaps you do not have to specify the Symbol Rate and QAM Mode options since they are seldom changed. However, you should set the QAM Mode option to Auto for more certainty. You can specify the Start Frequency, End Frequency and Symbol Rate options with the numeric buttons if you want to change them.

If the digital receiver has failed to find every service you want in a service search, you should set the Search Mode option to Network. With this option, the digital receiver will check up the up-to-date channel information as searching services, but it takes rather longer time.

To search only one frequency, set the Search Mode option to Manual and specify your desired frequency at the Frequency option with the numeric buttons. In this case, you had better set the Network Search option to On.

To start service search, move down to the Start Search item, and press the OK button. The digital receiver will start to search for services and display a list of television and radio services as they are found. It is common for no channels to be found until quite late in the process. When the scan is complete, you will see a message telling you how many services have been found. Press the OK button to save the list.

3.2 Resetting to factory settings

The digital receiver maintains the following data:

- Services list

- Favourite list
- Timer list
- Preference settings

You can reset all data of the digital receiver. Select the Installation > Factory Setting menu, and then you get asked for confirmation. With the choice of Yes, the services list, favourite list and timer list will all be cleared, and preference options will be reset to the manufacturer's factory settings.

Chapter 4

Preference Settings

4.1 Language settings

You can select the language in which the menu will be displayed. In addition to that, you can select the language of audio track and of subtitle track. Select the System Setting > Language Setting menu. You should see a screen like the left figure.

4.1.1 Menu language

The digital receiver provides menus in several different languages. Set the Menu Language option to your desired language. Once you select a language, the menu will be immediately displayed in the selected language.

4.1.2 Subtitle language

Set the Subtitle Language option to your desired language. When you watch a programme, the subtitle track of the selected language will be displayed if available.

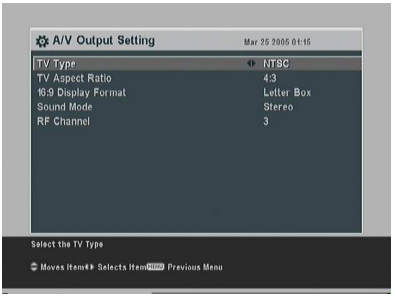
Apart from this setting, you can select a subtitle track with the button. See §5.2.5 for a detailed description.

4.1.3 Audio language

Set the Audio Language option to your desired language. When you watch a programme, the audio track of the selected language will be output if available.

Apart from this setting, you can select an audio track with the button. See §5.2.4 for a detailed description.

4.2 Video and audio settings



You have to configure the video and audio settings appropriately for your television set and other devices. Select the System Setting > A/V Output Setting menu. You should see a screen like the left figure.

4.2.1 Television standard

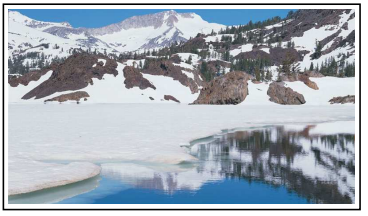
The digital receiver supports two television standards. One is PAL standard, and the other is NTSC standard. PAL was adopted in European countries while NTSC is adopted in USA, Canada, Mexico and so forth. Refer to Table 4.1 for the television standard of your local area.

If you have a PAL television, you have to set the TV Type option to PAL. In this case, if you switch to a service of the NTSC standard, though it is unlikely to happen, the digital receiver will display the pictures converted into the PAL standard. However, it is inevitable to lose a little picture quality. Likewise, the contrary case brings about the same result.

The best thing is to watch PAL services with a PAL television and to watch NTSC services with a NTSC television. However, a multi television set is able to process both of them. So if you have a multi television set, you should set the TV Type option to Multi. Then the digital receiver will present pictures without standard conversion.

4.2.2 Television aspect ratio

If you have a wide-screen television, set the TV Aspect Ratio option to 16:9.



You can enjoy both wide-screen programmes and normal-screen programmes with your wide-screen television as the above figures show. To watch normal-screen programmes in full screen like the left figure, set the Display Format option to Full. Normal-screen pictures then will be inflated to fit to the width of the wide screen. Otherwise, to watch them in the original ratio like the right figure, set it to Center. If you have a normal-screen television, set the TV Aspect Ratio option to 4:3.

You cannot fully enjoy wide-screen programmes with your normal-screen television as the above figures show. The left figure shows a normal picture displayed in the normal screen. To watch wide-screen programmes in the shape like the centre figure, set the Display Format option to Letter Box. Wide-screen pictures then will be reduced to fit to the width of the normal screen. Otherwise, to watch them in the shape like the right figure, set it to Center extract. Then wide-screen pictures will be cut out on the left and right sides equally to fit to the width of the normal screen.

4.2.3 Audio mode

Basically, there are two audio sources as you can find two audio sockets on the back panel of the digital receiver. You can enjoy only one source or both of them in either stereo or mono. Set the Sound Mode option as you desire.

Apart from this setting, you can change the sound mode with the (🔊?) button. See §5.2.4 for a detailed description.

4.2.4 Radio frequency output

If you have connected your television to the RF OUT socket of the digital receiver, you should configure the radio frequency output. The digital receiver can make analogue television from digital television and output it via the RF OUT socket.

Table 4.1: Television standards by country

Signal type	Country
PAL G	Australia, Austria, Cyprus, Czech Republic, Egypt, Estonia, Finland, Germany, Greece, Iceland, Iran, Israel, Italy, Kuwait, Latvia, Libya, Lithuania, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria, Yugoslavia
PAL I	Hong Kong, Macao, Republic of Ireland, South Africa, United Kingdom
PAL K	Czech Republic, Hungary, Poland
NTSC M	Bahamas, Belgium, Bolivia, Chile, Ecuador, Fiji, Guam, Jamaica, Mexico, Panama, Peru, United States, Venezuela

Set the RF Channel option to your desired channel number. Then you have to retune your television set to the new channel number.

4.3 Local time setting

You should set your local time for timer events.

Select the System Setting > Time Setting menu. You should see a screen like the left figure. You can set the clock manually or use the time signal, Greenwich Mean Time (GMT), carried as part of the digital television broadcast. To use Greenwich Mean Time, take the following steps:

1 Set the Mode option to Auto, then the Time Offset option becomes enabled.

2 Set the Time Offset option to the time difference between your time zone and GMT referring to Table 4.2.

3 Make sure that your local time is correctly displayed on the Local Time item.

To set the local time manually, set the Mode option to Manual and enter your local time to the Local Time option with the numeric buttons. The time format is *day/month/year 24-*

hour:minute. To change the time format to 12-hour format, set the Time Format option to 12-hour.

Table 4.2: Time offset table

Time offset	City
GMT − 12:00	Eniwetok, Kwajalein
GMT − 11:00	Midway Island, Samoa
GMT − 10:00	Hawaii
GMT − 09:00	Alaska
GMT − 08:00	Pacific Time US, Canada
GMT − 07:00	Mountain Time US, Canada
GMT − 06:00	Central Time US, Canada, Mexico City
GMT − 05:00	Eastern Time US, Canada, Bogota, Lima
GMT − 04:00	Atlantic Time Canada, La Paz
GMT − 03:30	Newfoundland
GMT − 03:00	Brazil, Georgetown, Buenos Aries
GMT − 02:00	Mid-Atlantic
GMT − 01:00	Azores, Cape Verde Islands
GMT	London, Lisbon, Casablanca
GMT + 1:00	Paris, Brussels, Copenhagen, Madrid
GMT + 2:00	South Africa, Kaliningrad
GMT + 3:00	Baghdad, Riyadh, Moscow, St. Petersburg
GMT + 3:30	Tehran
GMT + 4:00	Abu Dhabi, Muscat, Baku, Tbilisi
GMT + 4:30	Kabul
GMT + 5:00	Ekaterinburg, Islamabad, Karachi, Tashkent
GMT + 5:30	Bombay, Calcutta, Madras, New Delhi
GMT + 6:00	Almaty, Dhaka, Colombo
GMT + 7:00	Bangkok, Hanoi, Jakarta
GMT + 8:00	Beijing, Perth, Singapore, Hong Kong
GMT + 9:00	Tokyo, Seoul, Osaka, Sapporo, Yakutsk
GMT + 9:30	Adelaide, Darwin
GMT + 10:00	Eastern Australia, Guam, Vladivostok
GMT + 11:00	Magadan, Solomon Islands, New Caledonia
GMT + 12:00	Fiji, Auckland, Wellington, Kamchatka

4.4 Parental control

In general, television programmes are classified according to the level of violence, nudity and language of their content. When you are watching a programme, you can check its programme classification on the information box. For the information box, see §5.2.3. You can prevent your children

from watching specific programmes by specifying a maximum permissible level.

Select the System Setting > Parental Control menu. You should see a screen like the left figure, and you will be asked your Personal Identification Number (PIN). The number is initially set to '0000' as default.

If you wish to block programmes for viewers aged 15 or above, set the Censorship option to 15 (age). Setting it to No block blocks no programme; on the other hand, setting it to Total block blocks every programme.

NOTE

If a programme has no rating information, your censorship setting will not take effect.

If anyone is trying to watch a programme that is of or above the censorship setting, the person has to enter the personal identification number to override. To change the number, select the Change PIN Code menu, then a box pops up, asking a new PIN. Enter a desired number twice for confirmation.

You can also restrict uses of some menus. Selecting the Access Control menu displays a list of menus that you can lock. If the Time Setting item is set to Locked, you have to enter the PIN when accessing the Time Setting menu. If you enter a wrong number, you cannot use the menu. To release a locked item, set it to Unlocked.

4.5 Adjusting the On-Screen Display

You can adjust the transparency level of the On-Screen Display (OSD). Select the System Setting menu and set the OSD Transparency option as you desire. Its available range is 0 to 50 percent.

You can adjust the display time of the information box. For the information box, see §5.2.3. To adjust its display time, select the System Setting menu and set the Info Box Display Time option as you desire. Its available range is 1 to 30 seconds. If you set this option to No Info Box, the information box will not be displayed when you switch services. However, pressing the (i) button will display the information box. If you set this option to Never Hide, the information box will always be displayed.

In addition, you can raise or lower the position of the information box. Select the System Setting menu and set the Info Box Position option as you desire. Its available range is -10 to $+3$ lines. The higher you set the option, the lower the information box will be positioned.

Chapter 5

Every Day Use

5.1 Volume control

Use the ⊖ and ⊕ buttons to alter the volume to a comfortable level. You may need to adjust the volume on your television set too. To temporarily switch off the sound, press the (OK) button. Press it again to restore the sound to previous level.

5.2 Watching television

To change services, press the ⊙ or ⊙ button. Pressing the [↺] button switches to the previously viewed service. In addition, you can switch to your desired service by entering its service number with the numeric buttons. You can also select a service to watch in the services list.

5.2.1 The services list

To view the services list, press the [OK] button.

On the services list, you can see the service information as follows:

- Service number and name
- Multiplex information

A dollar sign (**$**) may be marked on some entries, indicating pay service. To watch pay services, you need a subscription card.

To select a desired service, put the highlight bar on its entry with the ▲ or ▼ button and press the OK button, then the selected service will be presented.

Pressing the ◀ or ▶ button skips over 10 entries up or down. Entering a service number with the numeric buttons puts the highlight bar on its entry.

You can switch between the television services list and the radio services list by pressing the button.

Pressing the (yellow) button performs an alphabetic browse. For instance, when the highlight bar is on an entry of which initial is B, pressing the (yellow) button puts the highlight bar on the first entry of which initial is C. To sort the services list by service name, press the (green) button. Pressing this button once more makes it sorted by service number.

Pressing the (blue) button displays additional options, with which you can do the following:

- By setting the Show Provider option to On, you can view service entries by groups of broadcasters.
- To change the name of the highlighted service, select the Rename option, then the on-screen keyboard

appears, with which you can enter a new name. See §6.3 as to how to use the on-screen keyboard.

- You can prevent other family members from watching the highlighted service by setting the Lock option to Locked. You have to enter your personal identification number to watch or unlock it.
- To add the highlighted service into a favourite group, select the Add to Fav option, then the favourite groups will be displayed. Put the highlight bar on a desired group and press the OK button.
- You can additionally sort the services list with the Sorting option as follows:

  Default by service number
  Alphabetic by service name
  FTA–CAS from free services to pay services
  CAS–FTA from pay services to free services
  Fav–NoFav from favourite services to unfavourite services.

- To delete the highlighted service, select the Delete option, then you get asked for confirmation. With the choice of Yes, it will be deleted. If you want to restore it as before, you have to perform service search again.

See §6.1 as to how to edit the services list.

5.2.2 The favourite service lists

You can select a service to watch on a favourite list as well as on the services list.

To display the favourite lists, press the FAV button. You should see a screen like the left figure. As you move the highlight bar up or down on the favourite group list at the left box, favourite services belonging to the highlighted group are listed on the right box.

As to how to edit the favourite lists, refer to §6.2.

To select a favourite service, put the hightlight bar on a desired group and press the ▶ button; a highlight bar appears on its favourite services list. Once you select a desired service with the OK button, it will be presented. Otherwise, to select other group, press the ◀ button.

After you have selected a favourite service, if you then switch to another service using the ▲ or ▼ button, it will be also another favourite service of the selected group. The digital receiver will remind you what group you have selected by displaying its name at the top right of the screen whenever you switch services. If you wish to get out of the current group, select the All services group on the favourite group list.

5.2.3 Viewing programme information

Pressing the *i* button displays the information box, on which you can see all of the following:

- Service number and name
- Transponder information
- Signal level and quality
- Programme name
- Programme classification sign
- Programme summary
- Broadcasting time
- Current time

In addition, you might see the following symbols:

- Subtitle symbol (▭) if subtitle tracks are provided on the current programme.
- Teletext symbol (▤) if teletext pages are provided on the current service.
- Lock symbol (🔒) if the current service is locked.
- Dollar symbol (**$**) if the current service is a pay service.

If the electronic programme guide is provided on the current service, you can see the information about the current and next programmes with the ◀ or ▶ button. To adjust the sound volume at this time, hold down the ◀ or ▶ button until the sound bar appears and reaches your desired level.

Pressing the (i) button once more displays detailed information about the current programme. To hide the information box, press the EXIT button.

5.2.4 Selecting audio tracks

Some programmes are provided with audio tracks in one or more languages. Pressing the (🔊?) button displays available audio tracks. Once you select an audio track, that track will be heard. In addition, you can enjoy audio tracks in four sound modes: Stereo, Mono, Left or Right.

5.2.5 Selecting subtitle tracks

Some programmes are provided with subtitle tracks in one or more languages. If the current programme provides subtitle tracks, the subtitle symbol ( ) will be marked on the information box. Pressing the button displays available subtitle tracks. Once you select a subtitle track, it will be displayed.

5.2.6 Viewing teletext

On some services, such information as weather reports, news or stock quotations is provided by means of teletext. If the current service provides teletext, the teletext symbol ( ) will be displayed on the information box. Press the button to view teletext pages.

Select a page to view by entering its page number with the numeric buttons. You can zoom into a teletext page with the (yellow) button, and adjust its transparency level with the (blue) button. To clear the teletext screen, press the EXIT button.

5.3 Viewing electronic programme guide

The Electronic Programme Guide (EPG) shows the current and scheduled programmes that are or will be available on each service with a short summary for each programme.

Pressing the GUIDE button displays the electronic programme guide, on which you can see the following:

- Scheduled programmes
- programme summary
- Broadcasting date
- Broadcasting time

To see detailed information of a desired programme, put the highlight bar on the programme with the ▼ or ▲ button and press the (i) button. To switch to another service, press the ◀ or ▶ button.

You can travel over previous days with the (green) button, and can travel over next days with the (yellow) button.

To see the programme guide for radio broadcasts, press the button. To switch it back, press the button again.

Pressing the (red) button will rearrange the form, swapping the columns and rows. To switch it back, press the (red) button again.

You can make a timer event on the electronic programme guide as follows:

1 Select a service you want.

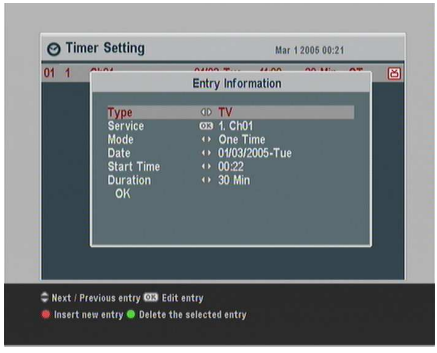
2 Press the GUIDE button to display its programme guide.

3 Select a programme you want with the OK button, then **P** is marked up on the entry. At the same time, a timer event with the selected programme will be made in the timer list. Refer to §5.4 for the timer list.

4 To remove the marking, press the OK button once again.

5.4 Making timer events

You can make your desired service to be presented at a specific time. Even if the digital receiver is in standby mode, it will switch into active mode at a specified time. And it will switch back into standby mode again after the specified duration.



Select the Timer Setting menu, then the timer list will be displayed. To add a new timer event, press the (red) button, then an option box pops up. Take the following steps:

1 If you want a radio programme, set the Type option to Radio; otherwise, set it to TV.

2 Set the Service option to the service that provides the programme you want. Pressing the OK button on this option makes a services list pop up, in which you can select your desired service.

3 There are five timer modes:

One Time means literally 'one time.'
Every Day means literally 'every day.'
Every Weekend means 'Saturday and Sunday every week.'
Weekly means 'one day every week.'
Every Weekday means 'from Monday to Friday every week.'

If your favourite programme is on the air at weekends and you wish to watch every episode of the programme, set the Mode option to Every Weekend.

4 Set the Date option to a desired date, on which the digital receiver will turn on. The date format is *day/month/year—day of the week*.

Set the Start Time option to a desired time, at which the digital receiver will turn on. The time format is *hour:minute*.

5 Set the Duration option to a desired time, in which the digital receiver will turn off.

6 To save with the above settings, select the OK item

You can also edit or delete timer events in the timer list. To edit a timer entry, put the highlight bar on the entry you want and press OK button, then pops up the option box in which you can change its settings in the same manner as making a new one.

To delete a timer event, put the highlight bar on the entry you want to remove and press the (green) button, then you get asked for confirmation. With the choice of Yes, it will be deleted.

If you've made timer events from the electronic programme guide, they will be also displayed in the timer list. In that case, you can edit or delete them in the same manner described above.

NOTE

Do not operate the digital receiver while it is working on a timer event. If you press any key on the remote control or on the front panel, it will not turn off automatically even after the timer event is complete.

Chapter 6

Organising Services

6.1 Editing the services list

You would have got the services list after service search. You can rename, move, lock or delete service entries on the services list.

Select the Organizing Svc/Fav > Organizing Services menu. You should see a screen like the left figure. There are editing options on the left column and service entries on the right column.

Once you put the highlight bar on a desired option on the left column and press the OK button, you can select a desired service to edit on the right column. To go over to the other column, press the (red) button.

To edit the radio services list, press the button, then radio

service entries will be listed on the right column. To switch back to the television services list, press it again.

To change the name of a service, select the Rename and select a desired service; then the on-screen keyboard appears. See §6.3 as to how to use the on-screen keyboard.

Unlike analogue broadcasts, each service does not have a proper service number in digital broadcasts. Service numbers are just assigned to services in the order that they were found in service search. So you can reassign a service number by moving a service entry. To move a service entry, select the Move option and select a desired service; then the selected service becomes darker. As you move it up or down, it gets renumbered according to the position. Press the OK button to fix it.

You can lock some services to prevent your children from watching them. To lock a service, select the Lock option and select a desired service; then the selected service gets marked with a lock symbol (🔒) on it. If anyone tries to watch a locked service, the person has to enter the personal identification number that is set to the Change PIN Code option. See §4.4 for this option. Pressing the OK button on a locked service entry turns it back to be unlocked.

You can make some services hidden on the services list. To hide a service entry, select the Skip option and select a desired service entry; then the check symbol will be marked on the selected service. To make a hidden service shown, press the OK button on it.

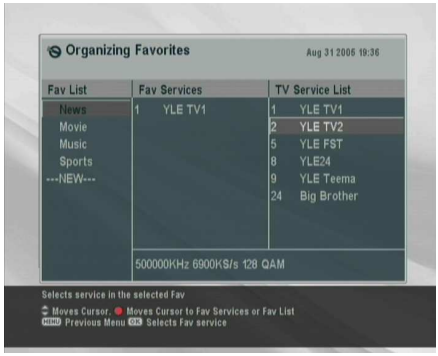
To delete a service, select the Delete option and select a desired service with the OK button, and then press the EXIT button; you get asked for confirmation. If you select Yes, the selected service will be deleted. If you want to undo the deleted service, there is nothing you can do but perform a service search again.

Once you select the Sort option on the left column, sorting options are displayed as follows:

Default by service number
Alphabetic by service name
FTA–CAS from free services to pay services
CAS–FTA from pay services to free services
Fav–NoFav from favourite services to unfavourite services

6.2 Editing the favourite lists

You can make your own favourite service lists. In fact, you can define multiple favourite service lists, each being a 'group' of chosen services.



Select the Organizing Svc/Fav > Organizing Favorites menu. You should see a screen like the left figure. There are three columns:

- Group list (left)
- Favourites list (centre)
- Services list (right)

The services list contains all available services, whereas the favourites list contains only chosen services that have been added to the highlighted group. As you move the highlight bar up or down on the group list, favourite services belonging to the highlighted group get shown in the favourites list.

You can add up to 30 groups. To add a new group, select the NEW item in the group list, then the on-screen keyboard appears. See §6.3 as to how to use the on-screen keyboard.

To rename a group, put the highlight bar on the group entry you want and press the (green) button, then the on-screen keyboard likewise appears.

To delete a group, put the highlight bar on the group entry you want and press the (yellow) button, then a message

box appears, asking you for confirmation. With the choice of Yes, it will be deleted.

You can add a favourite service to a group by taking the following steps:

1 Put the highlight bar on a desired group entry in the group list and press the OK button to select it. The highlight bar then moves to the services list.

2 To add a service to the selected group, put the highlight bar on a desired service entry and press the OK button. The selected service entry gets added to the favourite list. Repeat this step to add more entries.

3 Press the (red) button, and the highlight bar gets moved to the favourite list. You can delete a favourite entry with the OK button.

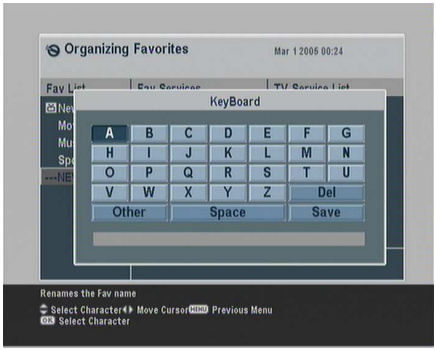
4 To select another group, press the (red) button again, then the highlight bar gets moved to each column.

Furthermore, you can rearrange a group's favourites by moving a favourite entry. To move a favourite entry, put the highlight bar on the favourite entry you want and press the (green) button. Move it to a desired place and press the OK button.

To add radio services, press the button, then radio service entries get listed in the services list. To recall the television services list after adding radio services, press the button again.

As to how to use the favourite service lists you organised, refer to §5.2.2.

6.3 How to use on-screen keyboard


Organizing Favorites
Mar 1 2005 00:24
KeyBoard
A B C D E F G
H I J K L M N
O P Q R S T U
V W X Y Z Del
Other Space Save
Renames the Fav name
Select Character Move Cursor MENU Previous Menu
OK Select Character

You can move the highlight key horizontally with the ◀ and ▶ buttons and vertically with the ▲ and ▼ buttons. Pressing the OK button on a key enters its letter in the input line. To type a space, select the Space key. To type lower case letters or numerals, select the Other key.

To delete a letter, put the cursor to the right of the desired letter on the input line and then select the Del key. You must select the Save key to store the name; otherwise if you press the EXIT button, the name will not be stored.

Chapter 7

Firmware Update

It is possible to update the firmware to the latest version over the air. If a new version is available at any time, then a message box pops up, asking you whether to start firmware update. With the choice of Yes, you will be moved to the System Software Upgrade menu, and the firmware update will be started.

Appendix A

Universal Remote Control

The universal remote control allows you to operate the most important functions such as power on/off and volume control on your television, video recorder, or DVD player. To be able to control the device, you must adapt the remote control to the device first.

Take the following steps:

1 Turn on the device you want to operate.

2 Point the remote control at the remote sensor on the device.

3 Hold down the device button you want to control until its light flashes on.

4 Find the manufacturer of the device from the codes list.

5 Enter the three-digits code you have found for your device and press the OK button, then the light blinks three times.

6 If you get no response to the remote control from the device, repeat from the step 2.

If you cannot find a code for your device, do as follows:

1 Turn on the device you want to operate.

2 Point the remote control at the remote sensor on the device.

3 Hold down the device button you want to control until its light flashes on.

4 Press the ▲ button until the device turns off.

5 Press the OK button to save it, then the light blinks three times.

A.1 TV

A

A MARK	000
ABEX	130 212
ADMIRAL	013 131 166 230 268
ADPECT	124
ADVENT	308
ADVENTURA	195
AIKO	009 248
AIWA	213 228 245 265
AKAI	014 198 292 341
ALLERON	056 282
AMARK	268
AMTRON	030
ANAM NATIONAL	015 030 205 311 322
AOC	016 017 187 204 018 019 051 140 141 169
APEX	181 215 229 291
ARCHER	268
AUDIOVOX	030
AXION	241 344

B

BELCOR	016 051
BELL & HOWELL	013 042 058 166 266 347
BENQ	283 284 315
BRADFORD	030
BROKSONIC	016 032 168 182 200 278 309 344
BROKWOOD	016 051

C

CANDLE	016 044 051 195
CAPEHART	140
CARVER	012
CELEBRITY	014 292
CELERA	181
CENTRIOS	262
CENTURION	051
CETRONIC	030
CHANGHONG	181 291
CITIZEN	009 010 016 018 030 042 044 051 086 096 139 166 168 173 210 248 264
CLAIRTONE	187
CLASSIC	030 181 291
CLP	190
CLP	CLASSIC 051 188 196
COLOR VOICE	267
COLORTYME	011 016 018 051 267
CONCERTO	016 051
CONCIERGE	125
CONTEC	130 187
CONTEC/CONY	005 006 007 030
CORNEA	051
CORONADO	000
CRAIG	030
CROSLEY	012 294
CROWN	030
CTX	268
CURTIS MATHES	008 012 016 018 042 045 051 058 086 096 139 166 172 173 210 255 266 346 347
CXC	030

D

DAEWOO	000 001 009 016 017 018 030 051 116 139 151 167 201 204 247 248 251 257 258 267 272 312 340 341 344 346
DAYTRON	016 018 051 139
DELL	300 345
DIAMOND VISION	256 277 297
DIGISTAR	211 224 240 328 345
DIMENSIA	045 266 347
DISNEY	252
DUKANE	124 295

DUMONT	016 051 125
DURABRAND	121 168 198 239 244 264 344
DYNASTY	030
DYNATECH	016

E

ELECTROBAND	014 187 292
ELECTROHOME	002 003 311 014 015 016 018 051 198
ELEKTRA	166
ELITE VIDEO	242
EMERSON	000 004 005 016 018 020 021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036 037 038 039 042 051 056 058 114 139 142 143 167 168 178 188 198 205 206 207 216 231 233 245 258 263 264 269 270 278 280 281 282 325 344 346
ENVISION	016 018 051 191

F

FISHER	042 057 058 059 130 144 275
FUJITSU	056 242 282
FUNAI	030 056 231 245 264 282
FUTURETEC	030

G

GATEWAY	220 GE 003 008 015 016 018 045 051 060 061 062 078 132 147 148 149 174 188 189 235 237 266 293 307 311 337 347
GIBRALTER	016 051 125
GOLDSTAR	000 002 005 016 017 018 051 055 064 120 125 127 130 139 204 245 272
GPX	203
GRUNDY	030 056 282
GUESTVISION	349

H

HAIER	229 239 244 283
HALLMARK	016 018 051
HARSPER	184 185
HARVARD	030
HISENSE	229 303 314
HITACHI	000 005 006 007 016 018 051 067 068 069 100 101 102 103 104 105 106 107 108 109 119 123 124 130 143 161 166 171 179 245 261 263 271 285 295

I

ILO	254 334 353 354
IMA	030
INFINITY	012 294 335
INITIAL	353
INSIGNIA	168 224 231 240 244 264 317 319
INTEGRA	287
INTEQ	125

J

JANEIL	195
JBL	012 294
JC PENNEY	003 006 008 010 016 017 018 041 044 045 051 055 060 061 064 078 086 095 096 117 130 132 139 189 204 210 235 237 266 269 293 347
JCB	292
JENSEN	016 018 051 319
JVC	005 006 007 046 047 048 061 068 128 129 130 133 158 178 218 242 271 285 342

K

KAWASHO	014 016 018 051 292

KAYPANI	140
KEC	000 030
KENWOOD	002 016 018 051
KLH	181
KLOSS NOVABEAM	030 049 065 195
KMC	000
KONKA	030 217 222 234 279 317 352
KTV	030 066 139 142 187 280
KURAZAI	166

L

LASONIC	256 277
LG	017 051 063 125 130 204 245 272
LIQUIDVIDEO	241 253 344
LODGENET	166 266 305 347
LOEWE	289 294
LOGIK	013 166 266 347
LUCE	208
LUXMAN	016 018 051
LXI	008 012 018 040 041 042 045 051 058 086 132 237 245 266 294 347

M

MAGNASONIC	282
MAGNAVOX	000 002 010 012 016 018 043 044 046 049 050 051 065 079 110 111 112 230 231 285 294 335 349
MAJESTIC	013 166 266 347
MARANTZ	012 016 018 051 067 287 294
MEDION	252 254 324
MEGATRON	018 051 067 124
MEI	187
MEMOREX	013 017 018 042 051 056 058 166 168 200 266 278 282 347
MGA	002 003 016 017 018 051 052 053 059 130 204 275 282 285
MIDLAND	008 125 130 189 237 347
MIKEI	030
MINUTZ	293
MITSUBISHI	002 003 016 017 018 051 052 053 054 059 115 198 204 275 282 285 286
MONIVISION	219
MONTGOMERY WARD	013 166 266 347
MOTEVA	042
MOTOROLA	015 131 268 311
MTC	016 017 210 018 051 086 096 187 204
MULTITECH	030
MULTIVISION	076
MYRON & DAVIS	306

N

NAD	018 040 041 051 086 134 171 212
NEC	011 015 267 285 016 287 017 311 018 051 075 204
NET TV	194 220
NEXXTECH	240 333
NIKKO	009 018 051 248
NORCENT	221 229 312
NTC	248

O

OLEVIA	051
ONCOMMAND	349
ONKING	030
ONWA	030
OPTIMUS	134 138 171 199 212 290
OPTOMA	327
OPTONICA	075 131 268
ORION	032 125 168 206

P

PANASONIC	015 061 246 290 066 294 138 311 152 175 189 199

PHILCO	000 002 005 010 012 015 016 017 018 043 044 046 049 050 051 065 204 285 294 311 349
PHILIPS	000 002 044 046 079 196 285 294 005 049 214 311 010 051 231 335 012 065 235 338 015 070 243 344 016 077 264 345 043 078 276 349
PHILIPS-MAGNAVOX	230 243 294 335 338 349
PILOT	016 051
PIONEER	016 018 051 071 072 134 143 171 212 263 273 287 295
PIVA	326
POLAROID	303 319 321
PORTLAND	000 009 016 017 018 051 139 204 248 251 346
PRECISION	226
PRICE CLUB	096 210
PRIMA	211 224 240 328
PRINCETON GRAPHICS	260 268
PRISM	061 189
PROSCAN	008 045 132 237 266 301 336 347
PROTON	005 016 018 051 073 140 227 304 316
PROVIEW	354
PULSAR	016 051 125

Q

QUASAR	015 061 066 074 138 175 189 199 290 294 311

R

RADIO SHACK	042 051 058 138 245 266 281 307 337 347
RADIO SHACK/REALISTIC	005 016 018 030 042 045 058 075 130 139
RCA	002 008 015 016 017 018 019 045 051 090 091 092 093 094 099 118 132 135 136 143 148 153 162 167 172 176 180 189 192 204 237 263 266 288 301 307 311 336 337 347 351
REALISTIC	042 051 058 138 245 266 281 337 347
RHAPSODY	187
RUNCO	125 287

S

SAMPO	016 018 051 130 139 140 186 194 220
SAMSUNG	000 002 005 008 016 017 018 051 086 095 096 097 130 139 151 163 204 209 210 223 232 255 272 302 310 339 341
SAMSUX	051
SAMTRON	210
SANSUI	168 200 278
SANTECA	197
SANYO	016 042 051 053 057 058 085 098 130 137 144 236 250 275
SCOTCH	051
SCOTT	005 016 018 020 021 030 032 051 056 206 282
SEARS	000 002 006 007 008 012 016 018 040 041 042 045 047 051 056 057 058 059 086 087 130 132 144 160 200 210 231 237 259 264 266 275 282 294 298 347
SELECTRON	330 331 332
SHARP	000 005 016 018 023 026 033 051 075 080 088 089 113 131 139 230 259 268 299 313 318
SHOGUN	016 051
SIGNATURE	004 013 166 266 347
SIMPSON	044
SONIC	187

SONY	014 150 343 350 157 159 164 170 177 292
SOUNDESIGN	010 016 018 030 044 051 056 282
SPECTRAVISION	323
SQUAREVIEW	264
SSS	016 030 051
STARLITE	030
STARSIGHT	190
SUPERSCAN	231 259 298
SUPERSONIC	203
SUPRA	051 296
SUPREMACY	195
SUPREME	292
SVA	229
SYLVANIA	002 010 012 016 018 043 044 046 049 050 051 065 079 081 146 168 231 245 264 285 294 348 349
SYMPHONIC	020 030 056 160 231 245 264
SYNTAX	051

T

TANDY	131 268
TASHIKO	041
TATUNG	015 254 283 311
TECHNICS	061 189
TECHWOOD	016 018 051 061 189
TEKNIKA	000 005 016 017 096 130 210 248 006 018 138 266 007 030 139 282 009 044 166 347 010 051 175 012 056 195 013 086 204
TELECAPTION	082 238
TELERENT	166 266 347
TERA	016 051 227
TEVION	254
THOMSON	154
TMK	016 051
TOSHIBA	040 041 042 058 075 082 083 086 096 130 138 145 146 155 156 183 200 202 210 238 255 274 285 287
TOTEVISION	139
TRUTCH	329

U

UNIVERSAL	060 078 235 293

V

VICTOR	271
VIDIKRON	012
VIDTECH	016 051 204
VIEWSONIC	220 295
VIKING	195
VIZIO	283

W

WARDS	000 002 012 013 016 017 018 020 021 043 044 045 046 049 051 056 060 065 075 078 079 084 166 204 235 266 282 293 294 347
WESTINGHOUSE	193 320
WHITE WESTINGHOUSE	225 245 251 272 346

Y

YAMAHA	002 016 017 018 051 138 204

Z

ZENITH	004 013 125 126 245 248 344 016 140 251 033 165 255 051 166 258 121 168 278 122 190 335 124 230 342

A.2 VCR

A

AIWA	049
AKAI	061 063
AMPRO	044
ANAM	025 026 027 028
AUDIO DYNAMICS	000

C

CANON	028
CAPEHART	018
CRAIG	006 064
CURTIS MATHES	008 009 028

D

DAEWOO	010 013 016 017 018 019 020 021 022 023 024 026 033 075 077
DAYTRON	018
DBX	000
DYNATECH	053

E

ELECTROHOME	043
EMERSON	003 008 066 067 009 068 010 028 041 062 065

F

FISHER	075

G

GE	008 009 028 044

H

HARMAN KARDON	000 047 069
HITACHI	001 002 045 046 047 048

I

INSTANTREPLAY	028

J

JCL	028
JCPENNY	000 006 028 045 054
JVC	000 028 055 070 078

K

KENWOOD	048 055 055

L

LG	000 001 002 003 004 045
LXI	001 003 010 045

M

MAGIN	006
MAGNAVOX	008 009 028 057 068 072
MARANTZ	000 028 057 073 076
MARTA	003
MEI	028
MEMOREX	003 006 028 044 053 075
MGA	043 047 069
MINOLTA	001 002 045
MITSUBISHI	002 043 045 047 050 051 052 053
MTC	006

N

NEC	000 054 055

O

OPTONICA	053

P

PANASONIC	027 028 056
PENNEY	000 001 054
PENTAX	001 002 028 045
PHILCO	028 057
PHILIPS	003 028 057 058 059
PILOT	003
PIONEER	045 055 060
PORTLAND	018
PULSAR	044

Q

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